
Recombinant Mouse Myostatin/MSTN/GDF-8 Protein(C-6His)**Cat.NO.: TP05909**

3th Edition

Synonyms:Growth/differentiation factor 8;GDF-8;Myostatin;Mstn;Gdf8**Description:**Mouse Growth/differentiation factor 8(Mstn, GDF-8) is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. It is expressed specifically in developing and adult skeletal muscle. It exists as a homodimer, and interacts with WFIKKN2, leading to inhibit its activity. This protein can act specifically as a negative regulator of skeletal muscle growth. It regulates cell growth and differentiation in both embryonic and adult tissues. Experiments in mice have improved that GDF-8 is a key regulator of mesenchymal stem cell proliferation and differentiation, and mice lacking Myostatin encoding gene show decreased body fat and a generalized increase in bone density and strength.**Form:**PBS**Molecular Weight:**28.4 kDa**Sequences:**Asn25-Ser265**Purity:**> 95% by HPLC**Concentration:****Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.